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(54) Title: LITHIUM METAL OXIDE ELECTRODES FOR LITHIUM CELLS AND BATTERIES

(57) Abstract: A lithium metal oxide positive electrode for a non-aqueous lithium cell or battery is disclosed. The positive electrode comprises a lithium metal oxide having a layered structure and a general formula, after in-situ or ex-situ oxidation, of LixMnyM1-y O_2 wherein $0 \le x \le 0.20$, 0 < y < 1, manganese is in the 4+ oxidation state, and M is one or more the first row transition metals: Ti, V, Cr, Mn, Fe, Co, Ni or Cu, or other specific other canons: AI, Mg, Mo, W, Ta, Si, Sn, Zr, Be, Ca, Ga, and P, which have an appropriate ionic radii to be inserted in to the structure without unduly disrupting it. Usage of the materials of the invention in lithium cells and batteries is disclosed. A process is disclosed for formation of materials of the invention.



INTERNATIONAL SEARCH REPORT

Internal Application No PCT/CA2004/000770

A. CLASSIF IPC 7	HO1M4/48 HO1M4/50 HO1M4/5	52			
According to	International Patent Classification (IPC) or to both national classification	fication and IPC	·		
B. FIELDS					
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C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT				
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